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To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

US 20060184407 A1	US- PGPUB	20060817	Operation information management device and surgery system	705/7		Ozaki; Takashi et al.
US 20060184160 A1	US- PGPUB	20060817	Surgery data display device, surgery data storing device, and surgery data storing display method	606/1		Ozaki; Takashi et al.
US 20060183972 A1	US- PGPUB	20060817	Operation apparatus controller and surgery system	600/101		Tashiro; Koichi et al.
US 20060170921 A1	US- PGPUB	20060803	Spectroscopic polarimetry	356/364		Oka; Kazuhiko et al.
US 20060164761 A1	US- PGPUB	20060727	Wiring component and magnetic recording drive for high data-rate recording	360/245.9		Okabe; Hiroshi
US 20060079934 A1	US- PGPUB	20060413	Forceps cover sheath, surgical forceps and surgical forceps system	606/205		Ogawa; Akihisa et al.
US 20060040483 A1	US- PGPUB	20060223	Method and system for modifying a gate dielectric stack containing a high-k layer using plasma processing	438/591	257/E21.268; 257/E21.282	Niimi; Hiroaki et al.
US 20060025814 A1	US- PGPUB	20060202	Medical device	606/205		Hatori; Tsuruo
US 20050288545 A1	US- PGPUB	20051229	Flexible tube for endoscope and method for manufacturing the same	600/101		Matsumoto, Jun et al.
US 20050284491 A1	US- PGPUB	20051229	Operating room control system	128/897	700/90	Tashiro, Koichi et al.
US 20050283138 A1	US- PGPUB	20051222	Operating room control system	606/1		Tashiro, Koichi et al.
US 20050283047 A1	US- PGPUB	20051222	Endoscopic system	600/118	600/109	Tashiro, Koichi et al.
US 20050253667 A1	US- PGPUB	20051117	Composite right/left handed (CRLH) couplers	333/118		Itoh, Tatsuo et al.
US 20050234326 A1	US- PGPUB	20051020	Medical procedure support system and method	600/407		Uchikubo, Akinobu et al.
US 20050215854 A1	US- PGPUB	20050929	Medical procedure support system and method	600/109	600/101	Ozaki, Takashi et al.
US 20050211383 A1	US- PGPUB	20050929	Magnetron plasma-use magnetic field generation device	156/345.46		Miyata, Koji et al.

US 20050182318 A1	US- PGPUB	20050818	Lesion identification system for surgical operation and related method	600/424		Kaji, Kunihide et al.
US 20050180122 A1	US- PGPUB	20050818	Electronic circuit module	361/803	257/E25.011; 257/E25.029; 361/719; 361/721; 361/749	Okabe, Hiroshi
US 20050176380 A1	US- PGPUB	20050811	Radio frequency circuit module	455/73		Okabe, Hiroshi et al.
US 20050166239 A1	US- PGPUB	20050728	Surgery support system	725/78	348/65; 600/101; 600/117; 600/921; 725/111; 725/32; 725/80; 725/81	Uchikubo, Akinobu et al.
US 20050151599 A1	US- PGPUB	20050714	Module for radio-frequency applications	333/133		Ido, Tatemi et al.
US 20050151240 A1	US- PGPUB	20050714	Radio frequency module	257/700	257/724; 257/E23.081	Takeda, Eriko et al.
US 20050149001 A1	US- PGPUB	20050707	Operation support system and support method of operation support system	606/1	128/897	Uchikubo, Akinobu et al.
US 20050148863 A1	US- PGPUB	20050707	Magnetic fluid detection device	600/422		Okamura, Toshiro et al.
US 20050137909 A1	US- PGPUB	20050623	Medical apparatus lease system for which fees are paid depending on usage status and medical apparatus compatible therewith	705/2		Tabata, Takao et al.
US 20050127509 A1	US- PGPUB	20050616	Semiconductor device and method for fabricating the same	257/737	257/E21.508	Yamaya, Kazufumi et al.
US 20050101948 A1	US- PGPUB	20050512	Electric operation apparatus	606/38	606/39; 606/40	Harano, Kenji et al.
US 20050101945 A1	US- PGPUB	20050512	Treating apparatus and treating device for treating living-body tissue	606/29	606/171; 606/31	Sakurai, Tomohisa et al.
US 20050089286 A1	US- PGPUB	20050428	Endoscope	385/117		Hatori, Tsuruo
US 20050085803	US- PGPUB	20050421	Ultrasonic-treatment handpiece with heat/vibration blocking	606/28	606/171; 606/31	Okabe, Hiroshi

A1			structure and ultrasonic treatment apparatus using the handpiece			
US 20050075545 A1	US- PGPUB	20050407	Method and apparatus for detecting a control switch for medical equipment	600/301		Honda, Yoshitaka et al.
US 20050049525 A1	US- PGPUB	20050303	Ultrasonic treatment device and ultrasonic treatment system	601/2		Yamada, Norihiro et al.
US 20050049458 A1	US- PGPUB	20050303	Switch control apparatus for controlling functions of a switch by displaying information relating to the switch controlling a plurality of medical devices	600/118	600/104	Honda, Yoshitaka et al.
US 20050043828 A1	US- PGPUB	20050224	Control device for a medical system and control method for medical system	700/83	700/17	Tanaka, Kazue et al.
US 20050033314 A1	US- PGPUB	20050210	Calculus manipulation apparatus	606/127		Sakurai, Tomohisa et al.
US 20050033117 A1	US- PGPUB	20050210	Object observation system and method of controlling object observation system	600/109	600/117	Ozaki, Takashi et al.
US 20050027310 A1	US- PGPUB	20050203	Ultrasonic treatment apparatus	606/169	606/171	Yamada, Norihiro et al.
US 20050021065 A1	US- PGPUB	20050127	Ultrasonic treatment apparatus	606/169		Yamada, Norihiro et al.
US 20050020967 A1	US- PGPUB	20050127	Ultrasonic surgical system and probe	604/22	606/169	Ono, Hiroo
US 20050010204 A1	US- PGPUB	20050113	Electric operation apparatus and control method thereof	606/34	606/41; 606/46	Ohyama, Masahide et al.
US 20050004589 A1	US- PGPUB	20050106	Ultrasound treatment system	606/169		Okada, Mitsumasa et al.
US 20040238125 A1	US- PGPUB	20041202	Plasma processing device	156/345.46		Ono, Hiroo et al.
US 20040236361 A1	US- PGPUB	20041125	Ultrasonic surgical system	606/167		Sakurai, Tomohisa
US 20040230094 A1	US- PGPUB	20041118	Remote operation support system and method	600/101	600/103; 600/118	Nakamura, Takeaki
US 20040215131	US- PGPUB	20041028	Ultrasonic surgical system	604/35		Sakurai, Tomohisa

A1						
US 20040193442 A1	US- PGPUB	20040930	Price revising system	705/1		Kimata, Nobuto et al.
US 20040172111 A1	US- PGPUB	20040902	Electric surgery apparatus for supplying electric power suitable for subject tissue	607/101		Hijii, Kazuya et al.
US 20040162509 A1	US- PGPUB	20040819	Ultrasonic operation apparatus for performing follow-up control of resonance frequency drive of ultrasonic oscillator by digital PLL system using DDS (DIRECT DIGITAL SYNTHESIZER)	601/2		Sakurai, Tomohisa et al.
US 20040138594 A1	US- PGPUB	20040715	Endoscopic lithotripsy apparatus and lithotripsy method of treatment object using the apparatus	601/4		Sekino, Naomi et al.
US 20040133189 A1	US- PGPUB	20040708	Surgical operation apparatus and control method thereof	606/1	606/34	Sakurai, Tomohisa
US 20040116952 A1	US- PGPUB	20040617	Surgical apparatus permitting recharge of battery-driven surgical instrument in noncontact state	606/169		Sakurai, Tomohisa et al.
US 20040085441 A1	US- PGPUB	20040506	Endoscope apparatus	348/65		Onishi, Junichi et al.
US 20040082938 A1	US- PGPUB	20040429	Resectoscope apparatus	606/1		Ohyama, Masahide et al.
US 20040082834 A1	US- PGPUB	20040429	Endoscope apparatus	600/118	600/109	Onishi, Junichi et al.
US 20040078035 A1	US- PGPUB	20040422	Medical treatment instrument	606/28	606/31	Kanehira, Eiji et al.
US 20040070822 A1	US- PGPUB	20040415	Surgical microscopic system	359/372		Shioda, Keiji et al.
US 20040057939 A1	US- PGPUB	20040325	Artificial bone material	424/93.7	264/629; 424/423; 623/16.11	Hakamazuka, Yasuharu et al.
US 20040019351 A1	US- PGPUB	20040129	Resectoscope apparatus and electric operation apparatus	606/46		Ohyama, Masahide et al.
US 20040019347 A1	US- PGPUB	20040129	Surgical operation system	606/27		Sakurai, Tomohisa et al.
US	US-	20040115	Calculus treatment apparatus	606/128		Nakamura,

20040010267 A1	PGPUB					Takeaki et al.
US 20030218720 A1	US- PGPUB	20031127	Three-dimensional observation apparatus and method of three- dimensional observation	351/222		Morita, Kazuo et al.
US 20030199794 A1	US- PGPUB	20031023	Ultrasonic operating apparatus	601/2		Sakurai, Tomohisa et al.
US 20030199793 A1	US- PGPUB	20031023	Ultrasonic operation apparatus for performing follow-up control of resonance frequency drive of ultrasonic oscillator by digital PLL system using DDS ( direct digital synthesizer)	601/2		Sakurai, Tomohisa et al.
US 20030171747 A1	US- PGPUB	20030911	Medical treatment instrument	606/45	606/48; 606/51; 606/52	Kanehira, Eiji et al.
US 20030162383 A1	US- PGPUB	20030828	Semiconductor device and method for fabricating the same	438/622	257/E21.508	Yamaya, Kazufumi et al.
US 20030148241 A1	US- PGPUB	20030807	Combustion apparatus	431/354		Shimazu, Masahiko et al.
US 20030143507 A1	US- PGPUB	20030731	Combustion apparatus	431/354		Kuriyama, Yasutaka et al.
US 20030128522 A1	US- PGPUB	20030710	Radio frequency module	361/715	257/E23.081; 257/E23.105	Takeda, Eriko et al.
US 20030102087 A1	US- PGPUB	20030605	Plasma processing apparatus and processing method	156/345.46	118/723E	Ito, Youbun et al.
US 20030097750 A1	US- PGPUB	20030529	Manufacturing method of electronic circuit including multilayer circuit board	29/847	257/E23.062; 29/831	Okabe, Hiroshi et al.
US 20030073987 A1	US- PGPUB	20030417	Treating apparatus and treating device for treating living-body tissue	606/28	606/48; 606/51	Sakurai, Tomohisa et al.
US 20030060682 A1	US- PGPUB	20030327	Light source device	600/178		Handa, Keiji et al.
US 20030045887 A1	US- PGPUB	20030306	Ultrasonic calculus treatment apparatus	606/128		Sakurai, Tomohisa et al.
US 20020165530 A1	US- PGPUB	20021107	Electrosurgical device for treating body tissue with high- frequency power	606/32		Harano, Kenji et al.
US 20020156466 A1	US- PGPUB	20021024	Surgical system	606/1	606/169	Sakurai, Tomohisa et al.

US 20020156349 A1	US- PGPUB	20021024	Light source apparatus for providing illuminating light to an endoscope, and an endoscope system	600/178		Yamaki, Masahide et al.
US 20020128539 A1	US- PGPUB	20020912	Endoscope suitable for autoclave sterilization	600/133	600/162	Higuma, Masakazu et al.
US 20020126049 A1	US- PGPUB	20020912	Antenna element	343/700MS	343/702; 343/895	Okabe, Hiroshi et al.
US 20020118523 A1	US- PGPUB	20020829	Electronic circuit equipment using multilayer circuit board	361/793	174/256; 174/260; 257/E23.062; 257/E23.075; 257/E23.077; 361/763; 361/782	Okabe, Hiroshi et al.
US 20020115917 A1	US- PGPUB	20020822	Medical treatment system	600/301		Honda, Yoshitaka et al.
US 20020113035 A1	US- PGPUB	20020822	Method for forming hole pattern	216/2	216/41; 216/67; 257/E21.257; 257/E21.578	Shimomura, Koji et al.
US 20020107538 A1	US- PGPUB	20020808	Ultrasonic operation system	606/169		Shibata, Norikiyo et al.
US 20020052598 A1	US- PGPUB	20020502	Electric operation apparatus	606/34	606/37; 606/38	Harano, Kenji et al.
US 20020027528 A1	US- PGPUB	20020307	Wireless handset using a slot antenna	343/702	343/767	Okabe, Hiroshi et al.
US 20020016544 A1	US- PGPUB	20020207	Therapeutic system	600/411	600/407	Hareyama, Norihiko et al.
US 20020004786 A1	US- PGPUB	20020110	Information offering system	705/64		Tagawa, Motoyuki et al.
US 20010055061 A1	US- PGPUB	20011227	Endoscope apparatus	348/65		Onishi, Junichi et al.
US 20010044575 A1	US- PGPUB	20011122	Therapeutic system	600/411		Hareyama, Norihiko et al.
US 20010039389 A1	US- PGPUB	20011108	Ultrasonic operation apparatus for performing follow-up control of resonance frequency drive of ultrasonic oscillator by digital PLL system using DDS	601/2		Sakurai, Tomohisa et al.

			(direct digital synthesizer)			
US 20010037109 A1	US- PGPUB	20011101	High-frequency treatment tool	606/48	606/50	Yamauchi, Koji et al.
US 20010029315 A1	US- PGPUB	20011011	Surgical operation system	600/101	606/34	Sakurai, Tomohisa et al.
US 7063692 B2	USPAT	20060620	Surgical operation system	606/1	600/101; 600/131	Sakurai; Tomohisa et al.
US 7001786 B2	USPAT	20060221	Semiconductor device and method for fabricating the same	438/18	257/E21.508; 438/14; 438/17	Yamaya; Kazufumi et al.
US 6985765 B2	USPAT	20060110	Three-dimensional observation apparatus and method of three- dimensional observation	600/407		Morita; Kazuo et al.
US 6929643 B2	USPAT	20050816	Resectoscope apparatus and electric operation apparatus	606/46	606/32; 606/42; 606/48; 606/50	Ohyama; Masahide et al.
US 6918909 B2	USPAT	20050719	Resectoscope apparatus	606/46	606/48	Ohyama; Masahide et al.
US 6902529 B2	USPAT	20050607	Endoscope apparatus	600/118	600/112	Onishi; Junichi et al.
US 6889431 B2	USPAT	20050510	Manufacturing method of electronic circuit including multilayer circuit board	29/847	204/192.1; 257/E23.062; 29/25.42; 29/846; 361/763	Okabe; Hiroshi et al.
US 6879488 B2	USPAT	20050412	Radio frequency module	361/704	174/252; 257/E23.081; 257/E23.105; 361/719	Takeda; Eriko et al.
US 6878109 B2	USPAT	20050412	Light source device for an endoscope using a DMD	600/180	600/178; 600/181	Yamaki; Masahide et al.
US 6855142 B2	USPAT	20050215	Electrosurgical device for treating body tissue with high- frequency power	606/40	128/898	Harano; Kenji et al.
US 6853078 B2	USPAT	20050208	Semiconductor device and method for fabricating the same	257/750	257/734; 257/773; 257/774; 257/E21.508	Yamaya; Kazufumi et al.
US 6840901 B2	USPAT	20050111	Endoscope apparatus	600/118	600/112	Onishi; Junichi et al.
US 6786717 B2	USPAT	20040907	Combustion apparatus	431/354	126/92R; 431/278; 431/285; 431/328	Shimazu; Masahiko et al.



US 6767322 B1	USPAT	20040727	Endoscope device	600/133	600/129	Futatsugi; Yasuyuki et al.
US 6764575 B1	USPAT	20040720	Magnetron plasma processing apparatus	156/345.46	118/723E; 118/723MA; 118/723MR; 118/723R; 156/345.42; 156/345.49; 204/298.16; 204/298.37	Yamasaki; Tomomi et al.
US 6761698 B2	USPAT	20040713	Ultrasonic operation system	601/2	600/439; 604/22; 606/1; 606/169	Shibata; Norikiyo et al.
US 6761690 B2	USPAT	20040713	Ultrasonic operation apparatus for performing follow-up control of resonance frequency drive of ultrasonic oscillator by digital PLL system using DDS (direct digital synthesizer)	600/447	600/437; 600/443; 600/459	Sakurai; Tomohisa et al.
US 6757178 B2	USPAT	20040629	Electronic circuit equipment using multilayer circuit board	361/793	257/E23.062; 257/E23.075; 257/E23.077; 361/766; 361/795	Okabe; Hiroshi et al.
US 6746236 B2	USPAT	20040608	Combustion apparatus	431/354	431/278	Kuriyama; Yasutaka et al.
US 6736813 B2	USPAT	20040518	High-frequency treatment tool	606/48	606/37; 606/39; 606/40; 606/51	Yamauchi; Koji et al.
US 6730080 B2	USPAT	20040504	Electric operation apparatus	606/38	606/34	Harano; Kenji et al.
US 6716161 B2	USPAT	20040406	Endoscope suitable for autoclave sterilization	600/133	600/162; 600/169	Higuma; Masakazu et al.
US 6693397 B2	USPAT	20040217	Light source device	315/291	315/307; 315/360	Handa; Keiji et al.
US 6679875 B2	USPAT	20040120	Medical treatment system	606/1	606/34; 606/41	Honda; Yoshitaka et al.
US 6669690 B1	USPAT	20031230	Ultrasound treatment system	606/40	606/169; 606/49; 606/51; 606/52	Okada; Mitsumasa et al.
US 6666875 B1	USPAT	20031223	Surgical apparatus permitting recharge of battery-driven surgical instrument in	606/169	30/DIG.1	Sakurai; Tomohisa et al.

			noncontact state			
US 6653977 B1	USPAT	20031125	Wireless handset	343/700MS	343/767	Okabe; Hiroshi et al.
US 6639559 B2	USPAT	20031028	Antenna element	343/700MS	343/702	Okabe; Hiroshi et al.
US 6623423 B2	USPAT	20030923	Surgical operation system	600/104	606/1; 606/10; 606/167; 606/170; 606/34; 606/46	Sakurai; Tomohisa et al.
US 6612981 B2	USPAT	20030902	Endoscope apparatus	600/118	600/112	Onishi; Junichi et al.
US 6569109 B2	USPAT	20030527	Ultrasonic operation apparatus for performing follow-up control of resonance frequency drive of ultrasonic oscillator by digital PLL system using DDS (direct digital synthesizer)	601/2	606/27; 607/2	Sakurai; Tomohisa et al.
US 6547721 B1	USPAT	20030415	Endoscope capable of being autoclaved	600/133	600/109; 600/110; 600/169	Higuma; Masakazu et al.
US 6527966 B1	USPAT	20030304	Pattern forming method	216/41	216/58; 216/67; 216/99; 257/E21.029; 257/E21.256; 257/E21.312; 257/E21.314; 430/270.1; 430/271.1; 438/704; 438/706; 438/717; 438/753	Shimomura; Koji et al.
US 6495038 B1	USPAT	20021217	Centrifugal separator with vertically detachable casing	210/232	210/360.1; 210/369; 210/380.1; 210/392	Kondoh; Yusuke et al.
US 6494827 B1	USPAT	20021217	Endoscope device and operation apparatus	600/118	600/117; 600/178	Matsumoto; Kazutaka et al.
US 6480762 B1	USPAT	20021112	Medical apparatus supporting system	700/253	128/897; 128/898; 128/904; 128/905; 340/286.01; 340/825.36; 600/200; 600/301;	Uchikubo; Akinobu et al.

					600/483; 606/1; 606/130; 606/148; 700/245; 700/250	
US 6466774 B1	USPAT	20021015	Wireless handset	455/150.1	455/193.1; 455/226.1	Okabe; Hiroshi et al.
US 6462714 B1	USPAT	20021008	Wireless handset using a slot antenna	343/767	343/700MS	Okabe; Hiroshi et al.
US 6452554 B1	USPAT	20020917	Antenna element and radio communication apparatus	343/702	343/767	Aoyama; Hiroyuki et al.
US 6398721 B1	USPAT	20020604	Surgical microscope apparatus	600/102	359/385; 600/160; 600/178	Nakamura; Motokazu et al.
US 6383183 B1	USPAT	20020507	High frequency treatment apparatus	606/34	606/37; 606/45; 606/49; 606/50	Sekino; Naomi et al.
US 6381483 B1	USPAT	20020430	Therapeutic system	600/407	600/411; 600/427	Hareyama; Norihiko et al.
US 6340557 B1	USPAT	20020122	Pattern formation method	430/316	257/E21.028; 257/E21.029; 430/313; 430/323	Shimomura; Koji
US 6340352 B1	USPAT	20020122	Ultrasound treatment system	601/2	604/22; 606/1	Okada; Mitsumasa et al.
US 6306131 B1	USPAT	20011023	Electric medical apparatus	606/38	606/37; 606/42	Hareyama; Norihiko et al.
US 6302841 B1	USPAT	20011016	Bendable tube of endoscope	600/142		Hatori; Tsuruo et al.
US 6273887 B1	USPAT	20010814	High-frequency treatment tool	606/48	606/51	Yamauchi; Kouji et al.
US 6270497 B1	USPAT	20010807	High-frequency treatment apparatus having control mechanism for incising tissue after completion of coagulation by high-frequency treatment tool	606/42	606/45; 606/49	Sekino; Naomi et al.
US 6198441 B1	USPAT	20010306	Wireless handset	343/702	455/183.1	Okabe; Hiroshi et al.
US 6188369 B1	USPAT	20010213	Tunable slot antenna with capacitively coupled slot island conductor for precise impedance adjustment	343/767	343/746; 343/750	Okabe; Hiroshi et al.
US 6080102	USPAT	20000627	System for evulsing	600/114	606/159;	Konou;

A			subcutaneous tissue		606/190; 606/192	Ryoichi et al.
US 6056735 A	USPAT	20000502	Ultrasound treatment system	606/1	606/169	Okada; Mitsumasa et al.
US 6053906 A	USPAT	20000425	Ultrasonic operation apparatus	606/1	606/169	Honda; Yoshitaka et al.
US 6046637 A	USPAT	20000404	Feedforward amplifier	330/151	330/52	Kishida; Hiroshi et al.
US 6039732 A	USPAT	20000321	Electric operation apparatus	606/38	606/34	Ichikawa; Yoshito et al.
US 6034644 A	USPAT	20000307	Tunable slot antenna with capacitively coupled slot island conductor for precise impedance adjustment	343/767	343/746; 343/750	Okabe; Hiroshi et al.
US 6031494 A	USPAT	20000229	Handy-phone with shielded high and low frequency circuits and planar antenna	343/702	343/700MS; 455/301; 455/575.5	Okabe; Hiroshi et al.
US 6019775 A	USPAT	20000201	Ultrasonic operation apparatus having a common apparatus body usable for different handpieces	606/169	433/119	Sakurai; Tomohisa
US 6014943 A	USPAT	20000118	Plasma process device	118/723E	156/345.46; 204/298.37	Arami; Junichi et al.
US 6004336 A	USPAT	19991221	Angiostomy apparatus using ultrasonic energy and angiostomy method	606/169	227/179.1	Sakurai; Tomohisa
US 5931836 A	USPAT	19990803	Electrosurgery apparatus and medical apparatus combined with the same	606/38	606/34; 606/42; 606/45	Hatta; Shinji et al.
US 5914693 A	USPAT	19990622	Coaxial resonant slot antenna, a method of manufacturing thereof, and a radio terminal	343/767	343/700MS; 343/771	Takei; Ken et al.
US 5836897 A	USPAT	19981117	Ultrasonic treatment apparatus	601/2	604/22; 606/128; 606/169; 606/39; 606/40	Sakurai; Tomohisa et al.
US 5766494 A	USPAT	19980616	Etching method and apparatus	216/45	216/69; 216/71; 257/E21.219; 257/E21.257; 257/E21.314	Mori; Haruki et al.
US 5759150 A	USPAT	19980602	System for evulsing subcutaneous tissue	600/114	606/159; 606/167; 606/190; 606/191; 606/192	Konou; Ryoichi et al.
US 5747790	USPAT	19980505	Solid state imaging device and	250/208.1	250/226;	Shimomura;

A			method of manufacturing same		257/432; 257/E27.133; 257/E31.121; 430/271.1; 430/273.1; 430/321	Koji et al.
US 5728130 A	USPAT	19980317	Ultrasonic trocar system	606/185	604/22; 604/264	Ishikawa; Manabu et al.
US 5688235 A	USPAT	19971118	Ultrasonic treatment apparatus	604/22	601/2; 606/1; 606/169	Sakurai; Tomohisa et al.
US 5681260 A	USPAT	19971028	Guiding apparatus for guiding an insertable body within an inspected object	600/114	128/899; 600/117	Ueda; Yasuhiro et al.
US 5679216 A	USPAT	19971021	Method of manufacturing a multi-degree-of-freedom manipulator	438/598	216/18; 216/2; 438/618	Takayama; Shuichi et al.
US 5628771 A	USPAT	19970513	Electromagnetic-wave thermatological device	607/102	606/31; 606/33; 606/42; 607/101; 607/156	Mizukawa; Satoshi et al.
US 5624380 A	USPAT	19970429	Multi-degree of freedom manipulator	600/146	600/141; 600/151	Takayama; Shuichi et al.
US 5582588 A	USPAT	19961210	Ultrasonic therapeutic apparatus	604/22		Sakurai; Tomohisa et al.
US 5529580 A	USPAT	19960625	Surgical resecting tool	606/170	604/22; 606/180	Kusunoki; Hiroyuki et al.
US 5476447 A	USPAT	19951219	Intraperitoneal therapy apparatus	604/26		Noda; Kenji et al.
US 5462522 A	USPAT	19951031	Ultrasonic therapeutic apparatus	604/22		Sakurai; Tomohisa et al.
US 5435683 A	USPAT	19950725	Load-lock unit and wafer transfer system	414/217	118/719; 414/754; 414/936; 414/939; 700/302	Oosawa; Tetsu et al.
US 5425704 A	USPAT	19950620	Apparatus for generating ultrasonic oscillation	604/22	310/316.01; 601/2; 606/128; 606/169	Sakurai; Tomohisa et al.
US 5423848 A	USPAT	19950613	Trocar	606/185	604/164.11; 604/264; 606/167; 606/41; 606/45	Washizuka; Nobuhiko et al.
US 5408991	USPAT	19950425	Endoscope system wherein	600/133	134/22.12;	Iida;

A			cleaning solution flows at same speed in cleaning solution supply section and in all flow paths of internal conduits		600/155	Yoshihiro et al.
US 5405230 A	USPAT	19950411	Load-lock unit and wafer transfer system	414/217	118/719; 356/400; 414/222.13; 414/416.03; 414/757; 414/936; 414/937; 414/939; 700/302; 901/47	Ono; Hiroo et al.
US 5404005 A	USPAT	19950404	Solid state imaging device and method of manufacturing same	250/208.1	250/226; 257/E27.133; 257/E31.121; 257/E31.128	Shimomura; Koji et al.
US 5391144 A	USPAT	19950221	Ultrasonic treatment apparatus	604/22	601/3; 606/1; 606/169	Sakurai; Tomohisa et al.
US 5377293 A	USPAT	19941227	Optical fiber having multi-component core glass or a plastic core, and a coating layer	385/128	385/117; 385/127; 385/141; 385/142; 385/143	Hatori; Tsuruo et al.
US 5372124 A	USPAT	19941213	Treating instrument	600/106	414/4; 600/109; 600/140; 600/564; 606/127; 606/205; 901/36	Takayama; Shuichi et al.
US 5343047 A	USPAT	19940830	Ion implantation system	250/492.21	250/251; 250/398	Ono; Hiroo et al.
US 5340261 A	USPAT	19940823	Load-lock unit and wafer transfer system	414/217	118/719; 356/400; 356/621; 414/416.03; 414/754; 414/936; 414/937; 414/939; 702/94; 901/47	Oosawa; Tetsu et al.
US 5328458 A	USPAT	19940712	Insufflation apparatus	604/23	604/26; 604/65; 604/66; 604/67	Sekino; Naomi et al.
US 5299560	USPAT	19940405	Endoscope in which a bend	600/121	385/117;	Hatori;

A			remaining in the insertion portion upon removal from storage is reduced		600/140; 600/153; 600/182	Tsuruo
US 5273027 A	USPAT	19931228	Method for dissolving a thickened mass within a living body and dissolving therapeutic apparatus for same	601/54	600/439; 601/4; 604/28; 604/31; 604/500; 604/67	Sekino; Naomi et al.
US 5269289 A	USPAT	19931214	Cavity insert device using fuzzy theory	600/109	600/104; 600/117; 600/157; 600/158	Takehana; Sakae et al.
US 5259365 A	USPAT	19931109	Endoscope examination apparatus	600/102	5/600; 600/118	Nishikori; Toshiaki et al.
US 5213571 A	USPAT	19930525	Litholysis apparatus provided with safe stop function	604/31	604/22	Fujio; Koji et al.
US 5211625 A	USPAT	19930518	Ultrasonic treatment apparatus	604/22	606/169; 606/39	Sakurai; Tomohisa et al.
US 5178135 A	USPAT	19930112	Therapeutical apparatus of extracorporeal type	601/4	600/439	Uchiyama; Naoki et al.
US 5176140 A	USPAT	19930105	Ultrasonic probe	600/459	310/327; 310/335; 310/336; 73/597	Kami; Kuniaki et al.
US 5163433 A	USPAT	19921117	Ultrasound type treatment apparatus	601/2	604/22; 604/27; 606/128	Kagawa; Hiroaki et al.
US 5158366 A	USPAT	19921027	Refractory monitoring temperature sensor and refractory erosion location measuring device	374/183	338/28; 374/185; 374/208	Nagai; Nobuyuki et al.
US 5156144 A	USPAT	19921020	Ultrasonic wave therapeutic device	601/4	367/155; 600/439	Iwasaki; Seiji et al.
US 5151085 A	USPAT	19920929	Apparatus for generating ultrasonic oscillation	604/22	310/316.02; 601/2	Sakurai; Tomohisa et al.
US 5140265 A	USPAT	19920818	Eddy current flaw detecting endoscope apparatus which produces signals which control other devices	324/220	324/226; 324/237; 324/240; 348/125; 348/74; 348/84	Sakiyama; Katsunori et al.
US 5123904 A	USPAT	19920623	Surgical resecting instrument	604/22	606/170	Shimomura; Koji et al.
US D326714 S	USPAT	19920602	Endoscope for blood vessel	D24/138		Funakoshi; Nobuyuki et al.

US 5106360 A	USPAT	19920421	Thermotherapeutic apparatus	600/2	600/3	Ishiwara; Koichiro et al.
US 5096292 A	USPAT	19920317	Borescope apparatus	356/241.4		Sakamoto; Nobuyuki et al.
US 5078144 A	USPAT	19920107	System for applying ultrasonic waves and a treatment instrument to a body part	600/439	601/4	Sekino; Naomi et al.
US 5076276 A	USPAT	19911231	Ultrasound type treatment apparatus	601/2	606/128; 73/861.18	Sakurai; Tomohisa et al.
US 5065741 A	USPAT	19911119	Extracorporeal ultrasonic lithotripter with a variable focus	601/4	600/439	Uchiyama; Naoki et al.
US 5048956 A	USPAT	19910917	Borescope apparatus	356/241.4		Sakamoto; Nobuyuki et al.
US 5047043 A	USPAT	19910910	Resecting device for living organism tissue utilizing ultrasonic vibrations	606/169		Kubota; Tetsumaru et al.
US 5042460 A	USPAT	19910827	Ultrasonic treating apparatus with device for inhibiting drive when ultrasonic element is determined to be defective	606/128	310/316.01	Sakurai; Tomohisa et al.
US 5035231 A	USPAT	19910730	Endoscope apparatus	600/109	600/411	Kubokawa; Hiroaki et al.
US 5003991 A	USPAT	19910402	Hyperthermia apparatus	607/99	607/116; 607/154	Takayama; Syuichi et al.
US 4991957 A	USPAT	19910212	Borescope apparatus	356/241.4	385/118	Sakamoto; Nobuyuki et al.
US 4989588 A	USPAT	19910205	Medical treatment device utilizing ultrasonic wave	606/2	601/4; 604/22	Kubota; Tetsumaru et al.
US 4984575 A	USPAT	19910115	Therapeutical apparatus of extracorporeal type	600/439	601/4	Uchiyama; Naoki et al.
US 4983019 A	USPAT	19910108	Endoscope light source apparatus	600/181	348/68; 359/889; 359/891; 359/892; 600/109	Ikuno; Yuji et al.
US 4979952 A	USPAT	19901225	Ultrasonic vibration treatment apparatus	606/169	310/316.01; 318/116; 606/128	Kubota; Tatsuya et al.
US 4977902 A	USPAT	19901218	Supersonic hyperthermia treating method	601/3		Sekino; Naomi et al.
US 4965532 A	USPAT	19901023	Circuit for driving ultrasonic transducer	331/4	310/316.01; 331/158; 331/65	Sakurai; Tomohisa
US 4961424	USPAT	19901009	Ultrasonic treatment device	601/2		Kubota;



A						Tatsuya et al.
US 4960106 A	USPAT	19901002	Endoscope apparatus	600/104	600/116; 600/127; 600/422	Kubokawa; Hiroaki et al.
US 4958639 A	USPAT	19900925	Ultrasonic therapeutical apparatus	600/439	601/4	Uchiyama; Naoki et al.
US 4955366 A	USPAT	19900911	Ultrasonic therapeutical apparatus	601/4		Uchiyama; Naoki et al.
US 4950267 A	USPAT	19900821	Laser beam treatment device for an endoscope	606/12	606/15	Ishihara; Koichiro et al.
US 4936307 A	USPAT	19900626	Ultrasonic observation system and an ultrasonic endoscope system	600/463	600/109	Saito; Yoshitake et al.
US 4930494 A	USPAT	19900605	Apparatus for bending an insertion section of an endoscope using a shape memory alloy	600/145	600/151; 600/434	Takehana; Sakae et al.
US 4924852 A	USPAT	19900515	Endoscope	600/150	600/107; 600/151	Suzuki; Akira et al.
US 4919520 A	USPAT	19900424	Liquid crystal eyeglass	349/13	349/33; 349/72	Okada; Takao et al.
US 4918521 A	USPAT	19900417	Solid state imaging apparatus	348/76	348/373; 600/109; 600/130	Yabe; Hisao et al.
US 4905082 A	USPAT	19900227	Rigid video endoscope having a detachable imaging unit	348/73	600/109	Nishigaki; Shinichi et al.
US 4901142 A	USPAT	19900213	Video scope system	348/69	600/132	Ikuno; Yuji et al.
US 4885635 A	USPAT	19891205	Endoscope light source apparatus	348/70	600/109; 600/181	Kimura; Kenji et al.
US 4884557 A	USPAT	19891205	Endoscope for automatically adjusting an angle with a shape memory alloy	600/145	148/402; 600/151	Takehana; Sakae et al.
US 4879992 A	USPAT	19891114	Rigid electronic endoscope	600/110	348/65; 600/114	Nishigaki; Shinichi et al.
US 4870950 A	USPAT	19891003	Endoscope system	600/109	348/65; 600/165	Kanbara; Kouji et al.
US 4867141 A	USPAT	19890919	Medical treatment apparatus utilizing ultrasonic wave	601/4	604/22	Nakada; Akio et al.
US 4867138 A	USPAT	19890919	Rigid electronic endoscope	600/107	348/65; 600/105; 600/158; 600/181	Kubota; Tetsumaru et al.
US 4867136 A	USPAT	19890919	Endoscope apparatus	600/109		Suzuki; Akira et al.
US 4862872 A	USPAT	19890905	Endoscope and endoscope washing apparatus	600/133		Yabe; Hisao et al.

US 4862258 A	USPAT	19890829	Multiple characteristic endoscope light source for frame sequential color imaging, mosaic color imaging and fiber image guide scopes	348/70	600/109; 600/132	Kidawara; Atsushi et al.
US 4855819 A	USPAT	19890808	Endoscope imaging system for use with multiple color imaging systems	348/70	600/109	Hibino; Hiroki et al.
US 4836211 A	USPAT	19890606	Ultrasonic treatment apparatus for performing medical treatment by use of ultrasonic vibrations	600/461		Sekino; Naomi et al.
US 4805596 A	USPAT	19890221	Endoscope	600/139	600/142	Hatori; Tsuruo
US 4803550 A	USPAT	19890207	Imaging apparatus having illumination means	348/68	348/296; 348/363; 600/109; 600/180	Yabe; Hisao et al.
US 4795248 A	USPAT	19890103	Liquid crystal eyeglass	351/158	349/13; 349/199; 349/72; 351/41	Okada; Takao et al.
US 4756605 A	USPAT	19880712	Liquid crystal spectacles	349/13	351/158; 351/41; 351/44	Okada; Takao et al.
US 4756303 A	USPAT	19880712	Insertion section of an endoscope	600/139	600/158	Kawashima; Masahiro et al.
US 4744359 A	USPAT	19880517	Cautery hemostatic unit	606/31	219/497; 219/501	Hatta; Shinji et al.
US 4737622 A	USPAT	19880412	Apparatus for photometrically detecting an optically focused condition of an optical system	250/204	250/201.4; 396/106; 600/167; 600/180	Shishido; Yoshio et al.
US 4732156 A	USPAT	19880322	Ultrasonic endoscope	600/445	600/101; 600/462; 74/DIG.4	Nakamura; Takeaki
US 4711999 A	USPAT	19871208	Apparatus for photometrically detecting an optically focused condition of an optical system	250/204	250/201.2; 396/106; 600/167	Shishido; Yoshio et al.
US 4579598 A	USPAT	19860401	Method of cleaning endoscope channels	134/22.12	134/22.18; 134/24; 134/34; 422/33	Sasa; Hiroyuki et al.
US 4579597 A	USPAT	19860401	Method of cleaning endoscope channels	134/21	134/22.12; 134/22.18; 134/24; 134/34; 422/33	Sasa; Hiroyuki et al.
US 4576650	USPAT	19860318	Method of cleaning endoscope	134/22.12	134/22.18;	Yabe; Hisao

A			channels		134/24; 134/34; 422/33	et al.
US 4556787 A	USPAT	19851203	Photosensor for optical observing or photographing devices	250/201.4	396/106; 396/111	Shishido; Yoshio et al.
US 4526623 A	USPAT	19850702	Method of cleaning endoscope channels	134/21	134/22.12; 134/22.18; 134/24; 134/34; 422/33	Ishii; Fumiaki et al.
US 4526622 A	USPAT	19850702	Method of cleaning endoscope channels	134/21	134/22.12; 134/22.18; 134/24; 134/34; 422/33	Takamura; Koji et al.
US 4525220 A	USPAT	19850625	Method of cleaning endoscope channels	134/21	134/22.12; 134/22.18; 134/24; 134/34; 422/33	Sasa; Hiroyuki et al.
US 4324801 A	USPAT	19820413	Phenylguanidine acetylsalicylate compounds, process for production thereof, and pharmaceutical composition thereof	514/166	560/143; 560/34	Matsuzaki; Meiki et al.
US 4107969 A	USPAT	19780822	Hot strip coiling mandrel	72/148	242/573.2	Okabe; Hiroshi et al.
US 3696217 A	USPAT	19721003	DEVICE USING A RECORDING JACK FOR PREVENTING ERASURE OF RECORDED INFORMATION FROM MAGNETIC TAPE IN A TAPE RECORDER	360/60		Motoyama; Kazuyasu et al.